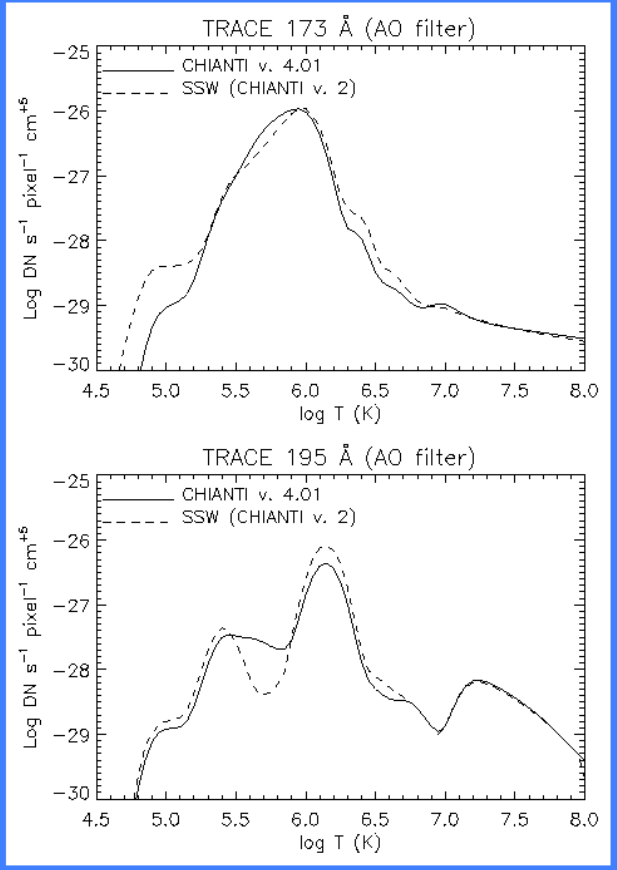

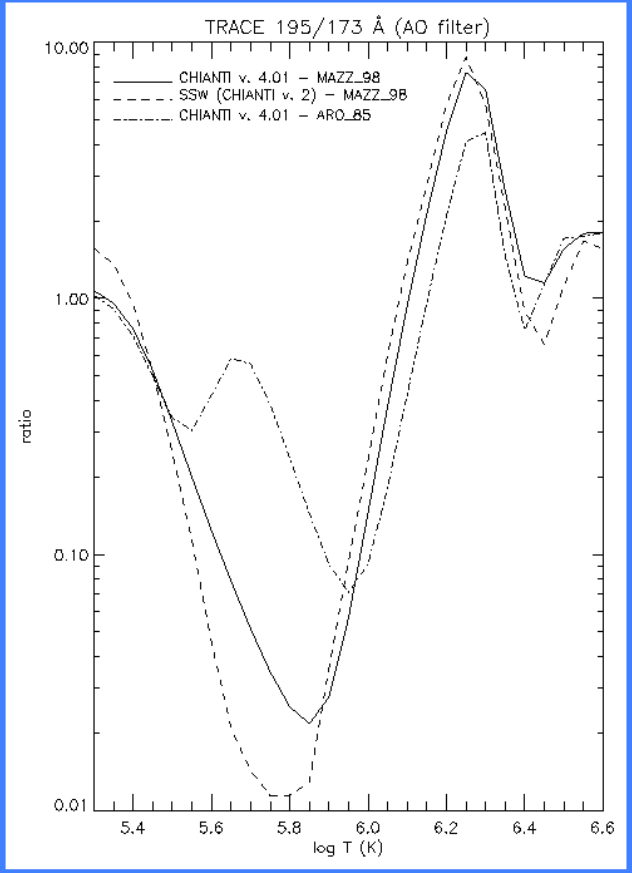

Figure 12: The TRACE responses and 195/173 Å ratio

- Many studies rely on the filter ratio method (e.g. 195/171 Å ratio). This is not reliable !
- No in-flight TRACE calibration.
- Del Zanna et al., [2003]), used near-simultaneous CDS-GIS and EIT observations of polar plumes to show that Fe VIII emission was the dominant contributor to the EIT 195 Å passband.
  The same is true for the 1 MK AR loops.
- Fe VIII emissivity are 'missing' in the current TRACE responses (CHIANTI v.2 was used).
- there is an added uncertainty due to the ionization fractions of Fe VII-IX and the other ions. Fe VIII is anomalous Del Zanna, [1999]; Del Zanna et al., [2003])
- The filter ratio curves are multi-valued.